

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A transponder for an electronic radio frequency identification system, comprising:

an antenna having an antenna impedance at a feedpoint thereof; and

an electronic circuit having an input impedance at an input thereof, the input being connected to the feedpoint; and, wherein the antenna impedance ~~having~~ has impedance characteristics for developing first and second voltage maxima across the input at first and second frequencies respectively, thereby ~~to provide~~ providing a continuous operative frequency band for the transponder including the first and second frequencies.

2. (Currently Amended) A transponder as claimed in claim 1, wherein the input impedance comprises a real component and a capacitive reactive component.

3. (Currently Amended) A transponder as claimed in claim 2, wherein an inductive element is connected between the antenna and the electronic circuit in parallel with the input impedance and which is operative to resonate with the capacitive component of the input impedance.

4. (Currently Amended) A transponder as claimed in claim 2, wherein the real component of the input impedance is at least 400 ohms.

5. (Currently Amended) A transponder as claimed in claim 1, wherein the first frequency is between 850 MHz and 900 MHz and the second frequency is between 900 MHz and 1 GHz.

6. (Currently Amended) A transponder as claimed in claim 1, wherein the antenna comprises one of a combination of a patch antenna and a transmission line both connected to the feed point, a combination of a shorted ring patch antenna and a transmission line both connected to the feed point, and a combination of a loop and an appendage to the loop.

7. (Currently Amended) A transponder as claimed in claim 1, wherein the first and second frequencies are associated with first and second dimensions of the antenna and wherein the first and second frequencies are selectable by selection of the first and second dimensions.

8. (Currently Amended) An antenna for a transponder of an electronic identification system, the transponder having an impedance, and the antenna having a feedpoint and an antenna impedance at a the feedpoint thereof, the antenna impedance having impedance characteristics for developing first and second voltage maxima at first and second frequencies, respectively, across ~~an~~ the input impedance of the transponder.

9. (Currently Amended) An antenna as claimed in claim 8, comprising one of a combination of a patch antenna and a transmission line both connected to the feedpoint, a combination of a shorted ring patch antenna and a transmission line both connected to the feedpoint, and a combination of a loop and an appendage to the loop.

10. (Currently Amended) An antenna as claimed in [[9]] 8, wherein the antenna comprises a combination of a first loop and an appendage to the first loop, and wherein the appendage comprises a second loop linked to the first loop.

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11. (Original) An electronic radio frequency identification system comprising a reader and at least one transponder as claimed in claim 1.
